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American Astronomical Society. On Thursday afternoon there was a joint session, at which the following papers were presented:

"Mathematics and statistics," retiring address of the president of the Mathematical Association of America, by E. V. HUNTINGTON.

"The work of the National Research Council with reference to mathematics and astronomy," by E. W. BROWN.

Reports on the international conference of scientists at Brussels, by FRANK SCHLESINGER and L. A. BAUER.

The following papers were presented to the society:

*On wind corrections:* PETER FIELD.

*Cauchy's memoir of 1814 on definite integrals:* H. J. ETTLINGER.

*Expansion of any determinant in minors from rectangular panels:* L. H. RICE.

*Pseudo-canonical forms and invariants of systems of partial differential equations:* A. L. NELSON.

*On the separation of complex roots of an algebraic equation:* A. J. KEMPNER.

*Some theorems on the zeros of solutions of homogeneous linear differential equations of the  $n$ th order:* C. N. REYNOLDS, JR.

*Some theorems on the zeros of solutions of self-adjoint homogeneous linear differential equations of the fifth order:* C. N. REYNOLDS, JR.

*Proof of the existence of distinct three-dimensional manifolds with the same group:* J. W. ALEXANDER.

*Certain determinants expressible as circulants or skew-circulants:* E. D. ROE, JR.

*A brief account of the life and work of the late Professor Ulisse Dini:* W. B. FORD.

*The resolvents of König and other types of symmetric functions:* S. P. SHUGERT.

*Form of the number of subgroups of prime-power groups:* G. A. MILLER.

*A generalization of a formula of Schubert in enumerative geometry:* E. S. ALLEN.

*Joint axis congruences with indeterminate developables:* E. P. LANE.

*A modification of an integral test for the convergence and divergence of infinite series:* R. W. BRINK.

*Certain types of involutorial space transformations (second paper):* F. R. SHARPE and VIRGIL SNYDER.

*Transformations of surfaces applicable to a quadric:* L. P. EISENHART.

*Transformations of cyclic systems of circles:* L. P. EISENHART.

*Differential equations containing arbitrary functions:* G. A. BLISS.

*Functions of lines in ballistics:* G. A. BLISS.

*On the relative positions of the complex roots of an algebraic equation with real coefficients and those of its derived equation:* D. R. CURTISS.

*Urn schemata as a basis for the development of the theory of correlation:* H. L. RIETZ.

*Projective transformations in function space (second paper):* L. L. DINES.

*On the invariants belonging to a hypernumber in an algebra of infinite order:* J. B. SHAW.

*Conditions necessary and sufficient for the existence of a Stieltjes integral:* R. D. CARMICHAEL.

*Note on convergence tests for series and on Stieltjes integration by parts:* R. D. CARMICHAEL.

*Note on a physical interpretation of Stieltjes integrals:* R. D. CARMICHAEL.

*An apparent anomaly in errors of interpolated values:* H. A. HOWE.

*Transformations of a Stieltjes integral potential:* G. C. EVANS.

*Note on sequences of Stieltjes integrals:* T. H. HILDEBRANDT.

*Differential equations of motion of a projectile regarded as a particle:* W. H. ROEVER.

*Certain properties of binomial coefficients:* W. D. CAIRNS.

*On the shape of polynomial curves:* A. J. KEMPNER.  
Abstracts of these papers and a fuller report of the meeting will be published in the November number of the *Bulletin of the American Mathematical Society*.

E. J. MOULTON,  
Acting Secretary

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## SCIENCE

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